William F. Benedict, M.D.
Division of Hematology-Oncology and Medical Genetics
Childrens' Hospital of Los Angeles
4650 Sunset Boulevard
Los Angeles, California 90027

Malignant Transformation, Mutagenesis and Fibrinolysin Production of Cigarette Smoke Condensate Fractions.

The researchers plan to investigate various fractions of cigarette smoke condensate for their ability to be promoters as well as initiators of the carcinogenic process using the C3H/10T1/2CL8 mouse cell line developed in the laboratory of Dr. Charles Heidelberger for transformation studies. They shall also continue to investigate whether the same fractions which transform the mouse cells are similar to those which are mutagenic in the Salmonella histidine mutagenesis system developed by Dr. Bruce Ames. Finally, they shall study chromosomal aberrations produced by these same cigarette smoke condensate fractions in the hamster cell line A(T_1)C1-3 which was developed in their laboratory.

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